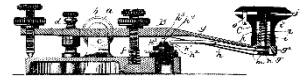




Bexar Wire

San Antonio Radio Club
W5SC



2018, No. 9

September 2018

System Fusion Digital Radio



Rosendo Guzman, N5YBG, making his presentation at the August 9, 2018, General Membership Meeting on the System Fusion Digital Radio

Our last meeting at Grady's Barbeque, 327 E. Nakoma Dr., San Antonio, TX 78216 at 7:00 p. m. on Thursday, August 9, 2018, featured a presentation by Rosendo Guzman, N5YBG, on the System Fusion Digital Radio. His presentation consisted of three parts: (1) a 10 minute or so video on System Fusion Digital Radio, (2) a PowerPoint presentation, and (3) a live demonstration of System Fusion Digital Radio. The video covered the basics of System Fusion Digital Radio by Yaesu. It is capable of operating on 2M and 70CM and the available equipment includes Hand Transceivers (HTs), mobile transceivers, repeaters, and WIRES-

X. In addition, it is built into the FT-991 that is a multiband transceiver including HF and ^M in addition to SM and 70CM. WIRES-X works with a System Fusion transceiver to connect to the internet and then across the internet to another WIRE-X equipped System Fusion transceiver allowing communication between truly distant points.

The slide presentation covered several the same points as the video, but it facilitated the asking and then answering by Rosendo N5YBG of numerous questions.

Rosendo N5YBG had a System Fusion FTM-1000 mobile transceiver set up in the room with an antenna at the back of the room. He was able to connect with a remote WIRES-X and then over the internet and other remote WIRES-X equipment to a station in Arizona, at random, during the presentation. (Continued on Page 5.

Ethernet

Our next club meeting will be at 7:00 p. m. (1900) on Thursday, September 13, 2018, at Grady's Barbeque, 327 E. Nakoma Dr., San Antonio, TX 78216. The program will be presented by Bill Craft, KD2HIQ, on Ethernet.



Rosendo Guzman, N5YBG, receiving a Program Certificate of Appreciation receiving a Program Certificate of Appreciation from Harold Fleischer, AE5AS, President of the San Antonio Radio Club

SAN ANTONIO RADIO CLUB

PRESIDENT’S RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
9	R		AE5AS		San Antonio, TX		Sept.
TO							
W5SC							

. This month marks the start of the election cycle for officers and a new director for next year. Our Constitution and By-Laws has four elected officers (President, Vice President (and Programs Committee), Secretary, and Treasurer each on a one-year term) and five directors each on staggered five-year terms. The Chairman of the Board position is not elected. Instead, the Immediate Past President automatically becomes Chairman of the Board.

At the September 2018 meeting, I will announce who accepted the chairperson position and the member position of the Nominating Committee. There job will be to canvas the membership and find individuals who are willing to stand for election. The Nominating Committee should report a full slate of candidates, usually four officers and one director, to the membership at the October 2018 meeting. The election is held in November of each year because SARC does not meet in December. The 2018 officers and one retiring director are off the job on Dec 31st. The 2019 officers and new director are on the job on Jan 1st.

SARC is a volunteer organization. Everyone has to volunteer to join. The officers and directors have to volunteer to serve. I sat on a chair in the back for about 10 years. I realized when I was asked to be President that it was time for me to take a turn leading SARC. It has been a very illuminating experience. I have gotten to know a lot of good hams better than I otherwise would have gotten to know them. We have a number of hams who just work year after year on things like Radio Fiesta, Field Day, Ham Classes, and License Testing, JOTA, etc.

My personal objective after three years (2016-2018) is to become Chairman of the Board. I want to encourage everyone to take a turn at an elected office much like I did in late 2015.





AE5AS

Bexar Wire

Published monthly by:

San Antonio Radio Club

Harold C. Fleischer, III AE5AS

President

Robert W. Thompson, K5RWT

Editor

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The due date for articles is the Friday before the first Monday of the month.

San Antonio Radio Club
Meeting Minutes
August 9, 2018

Harold Fleischer, AE5AS, President, called the meeting to order at 7:04 p. m. at Grady's BAR-B-Q, 327 E. Nakoma Dr., San Antonio, TX 78216. There were 23 people in attendance.

Harold Fleischer, AE5AS, then introduced himself as Harold AE5AS and then in accordance with SARC custom asked everyone else to introduce themselves.

Harold Fleischer, AE5AS, then turned the meeting over to Mike Harrison, KB5KST, Vice President, who introduced the program. The program was presented by Rosendo Guzman, N5YBG, on System Fusion Digital Radio (40 minutes from 7:11 pm to 7:51 pm). Mike Harrison, KB5KST, thanked Rosendo Guzman, N5YBG, and turned the meeting back over to Harold Fleischer, AE5AS, who immediately presented Rosendo Guzman, N5YBG, with a Program Certificate of Appreciation.

Harold Fleischer, AE5AS, then reviewed the printed agenda for meeting with the members present and asked if there were any modifications. There being no modifications suggested, Harold Fleischer AE5AS announced the printed agenda as orders for the meeting by without objection by unanimous consent.

Harold Fleischer, AE5AS, then stated that whereas the minutes for the last meeting on July 12, 2018 had been distributed in the July 2018 Bexar Wire newsletter that unless there were corrections or objections that we would dispense with the reading of the minutes and approve them as written without objection by unanimous consent.

Officer Reports:

President

The Nominating Committee will be appointed in August 2018 and announced at the September 13, 2018.

- Their mission will be to identify 4 officers and 1 member of the Board of Directors by the October 11, 2018 meeting. The retiring Board member is Tom O'Brien, AB5XZ.
- The election will be at the November 8, 2018.
- The new officers and member of the Board of Directors start their terms on Jan 1, 2019.
- Anyone interested in being on the Nominating Committee should contact me as soon as possible.

Vice President – Future Program: The program in September 2018 will be on Ethernet by Bill Craft, KD2HIQ.

Secretary – no report.

Treasurer – Financial Report was distributed by the Treasurer and briefly discussed. The key point was that with Field Day coming in slightly under budget, SARC is doing well against the budget as planned.

Newsletter Editor - The August 2018 *Bexar Wire* newsletter was sent to Tom O'Brien, AB5ZX, and Bill Craft, KD2HIQ, on August 6, 2018 for emailing to membership.

The August 2018 *Bexar Wire* newsletter uploaded to the website on Monday, August 6, 2018, and Tom O'Brien, AB5ZX, sent out a link on August 7, 2018 to members with a meeting reminder.

The new deadline will be the Friday before the first Thursday of the month.

Webmaster – Bill Craft, KD2HIQ, is out of town, but he reported;

- That he has created an Archive on the website's server.
- He has uploaded the historical archive files from Eric Harris to the Archive on the website's server.
- He needs to pass the archive flash drive to Tom O'Brien, AB5XZ.

Chairman of the Board Report –Bob Rodriguez, K5AUW – No report.

Committee Reports

Education and Training – David Finell, N7LRY, reported that he and Bob Rodriguez, K5AUW, will be giving a Technician Class on Saturday, August 11, 2018 and Saturday, August 18, 2018 at the Mays Family YMCA at Potranco. The hours are 9 am to 5 pm. The VEs will conduct testing starting at 3 pm on Saturday, August 18, 2018. There are 16 seats and reservations through David N7LRY are recommended.

Emergency Communications Report – J C Smith, N5RXS, reported that:

- The ARES SET is scheduled for Saturday, October 6, 2018.
- SATAC Hospital Exercise is scheduled for Thursday, October 11, 2018.
- Not sure if ARES will combine these two exercises as a part of a STRAC exercise if one becomes scheduled.

Executive – No meetings since last month.

Field Day – Joe Bruno, W5AUQ, Chairperson – no report.

Finance and Review – Paul Guido, N5IUT, reported that the books for 2017 are fantastic.

JOTA – Mike Harrison, KB5KST, is going to the August roundtable where he hopes to learn more about this years JOTA.

Anyone wanting to help with JOTA on Saturday, October 20, 2018, should contact him.

The basic plan is:

- 9 am to 10 am – setup at the Texas Transportation Museum
- 10 am to 3:30 pm – work with Scouts
- 3:30 pm to 4:30 pm – tear down

Membership – Tom O'Brien, AB5XZ, is out of town so no report.

We probably have over 100 members now.

Nominating - inactive

Radio Fiesta – JC Smith, N5RXS, is working on the dealer list and dealer letters. He further reported that they are trying to get Associated Radio to come, they are soliciting for programs, and that they would like to use Pay-Pal to collect money for table reservations.

VEC – The VEs will be supporting the Technician Class on Saturday, August 18, 2018. Any VE wanting to help should contact Pat Knight, AD5BR. This test will be limited to the members of the Technician Class.

The next test session will be held at 10:00 a. m. on August 25, 2018, at the Great Northwest Library.

The question pool for the Technician exam changed on July 1, 2018, so everyone who is now studying for the Tech exam needs to ensure they are studying the current question pool.

Bsides Committee (Temporary) – Rosendo Guzman, N5YBG, reported on SARC's participation with a couple of tables at the Bsides Event on Saturday, June 16, 2018.

- The target audience for Bsides is computer network security professionals. This nerd pool already has ham radio operators in it.
- Rosendo N5YBG and his helpers showcased digital radio technologies including a repeater.
- They raffled off a Baofeng HT.
- They had copies of the last newsletter and membership blanks. While they had a lot of traffic at times, the only person joining SARC was one of Rosendo N5YBG's helpers.

Centennial Commemoration (Temporary) - Tom O'Brien, AB5XZ, is out of town.

- The next Centennial Commemoration Committee will be on Monday, August 13, 2018.
- He has started work on the QSL stamp.

CW Training (Temporary) – Joe Bruno, W5AUQ, reported that he has two people interested in CW training besides himself. He has investigated an on-line CW club as a basis for training that uses Zoom video conferencing. This may be the way for individuals to pursue CW.

Old Business - None

New Business - None

Announcements For The Good of Amateur Radio

Richard Elder, WB5ACN, announced the availability of the pixie CE transceiver on eBay. It is assembled and works on 40M at 0.5 watts. It is equipped with a crystal for 7.3 MHz.

JC Smith, N5RXS, asked if there was any sentiment on allowing people to come in Friday night of Radio Fiesta 2018 to buy during set-up from 5-8 pm provided we got the volunteers to work that time frame. He also noted that other hamfests don't necessarily distinguish between dealer tables and flea market tables.

Bob Puharic, WF3H, announced that a Coast Guard Auxiliary Telecom Course will be taught in Oct 2018. Anyone wanting more information should call him at 215-272-8085.

The meeting was adjourned at 8:45 p. m.

Richard Elder, WB5ACN
for
Eric Harris, KG5SZV
Secretary

System Fusion Digital Radio (Continued from Page 1)



Panoramic view of the General Membership meeting on August 9, 2018 from the back of the room



FTM-100 transceiver showing contact via WIRES-X 831 miles away

System Fusion is backwards compatible in that it will work with analog radio. System Fusion supports various digital voice and data modes.

A copy of the viewgraphs for Rosendo N5YBG's presentation starts on page 9.

After Rosendo N5YBG completed his presentation, he was thanked by Mike Harrison, KD5KST, on behalf of all members present. The President then presented him with a Program Certificate of Appreciation.

Officer and Committee reports were generally routine and are shown in the minutes starting on Page 3. There were a few highlights:

- The President announced that a Nominating Committee will be announced at next month's meeting to put together a slate of 4 offices for 1-year terms and 1 director for a five-year term.
- Jeff Boyes, ND8B, Treasurer reviewed our financial status. We are tracking with the budget and were actually under for Field Day 2018.
- The Education and Training Committee had set up a Technician Class for August 18 and 25, 2018. This was the first SARC open class of the year.

- Mike Harrison, KB5KST, reported that is going to the Boy Scot's August Roundtable where he hopes to learn more about JOTA 2018 on October 20, 2018. Anyone who wants to help should contact him.



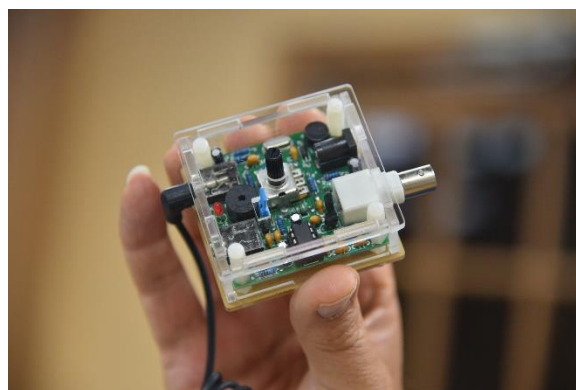
Mike Harrison, KB5KST, showing this year's Boy Scout JOTA patch

- Mike Harrison, KB5KST, reported that is going to the Boy Scot's August Roundtable where he hopes to learn more about JOTA 2018 on October 20, 2018. Anyone who wants to help should contact him.
- Rosendo Guzman, N5YBG, reported on the BSides event done on June 16, 2018. BSides is a program of seminars for computer network security professionals. SARC took advantage of a free table offer, and Rosendo N5YBG led the team that showcased digital radio technologies. A number of the attendees were already hams.



The fashionable BSide T-Shirt and white exhibitor badge made from a circuit board

- Richard Elder, WB5ACN, announced the availability of Pixie CW transceiver on eBay. It is assembled and works on 40M at 0.5 watts. It is equipped with a crystal for 7.3 MHz.



The Pixie CW QRP Transceiver is really, really small

URL of Video on C4FM - <https://youtu.be/tNjqHUhhMmA>

W5SC Trading Post

Got Gear?



Volunteer Examiners at Work



Pat Knight, AD5BR, Chairperson, Volunteer Examination Committee, and seven other Volunteer Examiners conducted the regular fourth Saturday of even months test session at the Great Northwest Library starting at 10:00 a. m., Saturday, August 25, 2018. There were ten candidates. This was a very successful session with all ten candidates earning the license level they came to get: 5 Technicians, 3 Generals, and 2 Amateur Extras.



Pat Knight, AD5BR, briefing test candidates and Volunteer Examiners at the start of the examination sessions at the Great Northwest Library on August 25, 2018



The Red Team of VEs at work grading at the Great Northwest Library on August 25, 2018



The Blue Team of VEs at work grading at the Great Northwest Library on August 25, 2018



Overview of the test Great Northwest Library on August 24, 2018 which extended across the whole building

There will be a VE session at the HAMsters Lunch & Learn at 1:30 PM, Saturday, Sept 22, 2018, at the American Red Cross, 3642 E. Houston Street, San Antonio, TX 78219. Pre-registration is highly recommended at hamtest@gmail.com. Tests for all three grades of licenses will be offered.

JOTA
Boy Scout Jamboree On The Air
Oct 20, 2018

Training and Testing

David Finell, N7LRY, Chairperson, Training and Education Committee, with assistance from Bob Rodriguez, K5AUW, conducted a Technician License Class on August 11, 2018 and August 18, 2018. As has been the case for years, David N7LRY included a two hour test block at the end of the class starting at 3 p. m. Pat Knight, AD5BR, Chairperson, Volunteer Examiner Committee, arranged for Volunteer Examiners to be there and supervised the testing.

In spite of the short notice from the time the class was set up until it was conducted at the Mays Family YMCA at Potranco, 8755 Hwy 151 Access Road, San Antonio, TX 76245, the class did have six students. The Community Room turned out to be an excellent location, and David N7LRY is planning to use the site for some future classes.

Four students took the Technician License examination. All four were successful in earning their Technician license, and one individual went on to earn his General license. The four new hams were given raffle tickets for a Hand Transceiver (HT) drawing. One lucky new ham was the winner. Cray Lester, K5MUG, was acknowledged by Bob K5AUW as the HT donor.



Bob Rodriguez, K5AUW, (left) and David Finell, N7LRY, (right) at the front of the Technician Class on August 18, 2018 at the Mays Family YMCA at Potranco



Volunteer Examiners set up at the front of the room at the start of the Technician License Examination

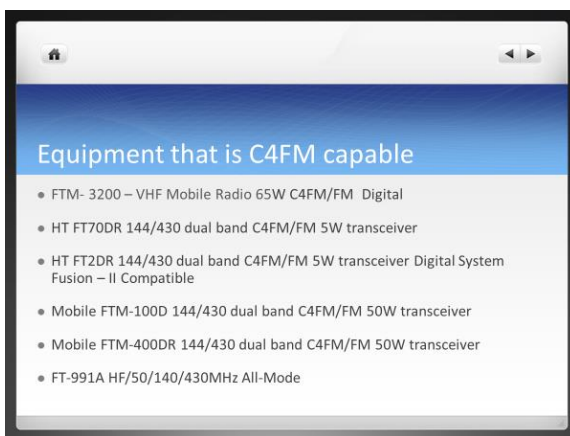
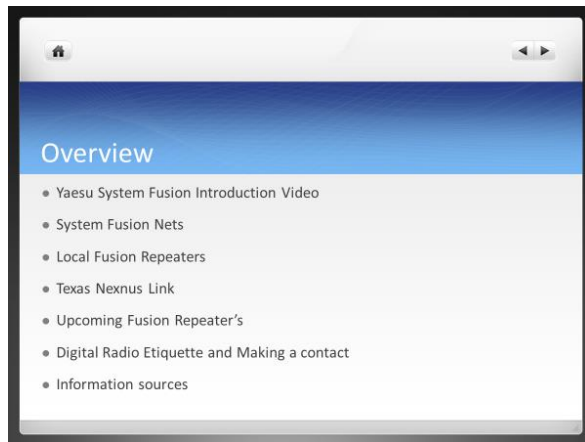


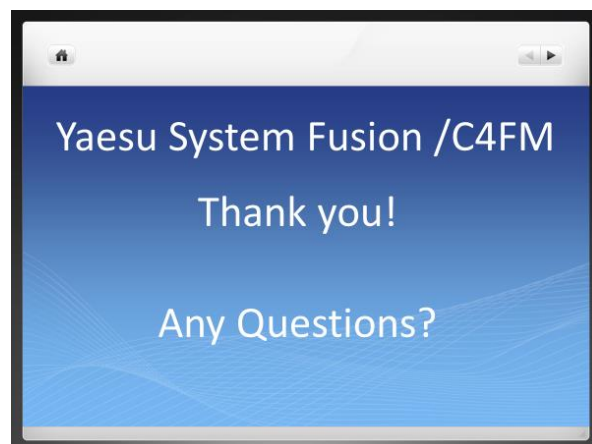
Bob Rodriguez, K5AUW, finishing the last portion of the Technician License Class on August 18, 2018 at the Mays Family YMCA at Potranco



Bob Rodriguez, K5AUW, and David Finell, N7LRY, conducting the raffle for a Hand Transceiver for all new hams after the test

System Fusion Presentation Slides





The HAMster VHF/UHF Weak Signal Group
4th Annual Lunch & Learn + Swap Meet
September 22nd @ 8:am
American Red Cross: 3642 E Houston St, San Antonio Tx



FREE EVENT!
 TECHNICAL TRAINING-SWAP
 MEET-VE TESTING-RAFFLE.

FREE COFFEE, SODAS, WATER
 AND SPAGHETTI LUNCHEON.

www.hamstergroup.ning.com

Time:	Rm #:	Presenter:	Event:
8:am	#3-4:	N/A	Sign in-Raffle Ticket Sales-Swap Meet
9:am	#1	N5XO	Introduction to VHF/UHF Weak Signal & HAMster Group
9:30	#1	N5XO	Is your Coax Charging you a TAX?
9:30	#2	N7LRY	Quadrifilar Helix Antenna. A surprising performer
10:30	#2	N7LRY	Analyzer-Tools to get you that last db.
11:am	Patio		LUNCH IS SERVED
12:Noon			SWAP MEET IS CLOSED DOWN
12:30	#1	KC5ULU	How to build a 2 meter 4 element Quad for under \$50
12:30	# 2	KA2ZGW	Traffic Handling-How to create a message and send it
13:30	# 1	VE Team	VE Testing Session-New hams & Upgrades
13:30	# 2	W5KTX	Station building, Grounding
14:30	#1-2	N5XO	Final Program & Raffle

Raffle Prizes

FT-920 100 Watt HF/6 Meter Radio with Desk Microphone
Yaesu HT, VX-5 with desk Charger

Yahoo Groups

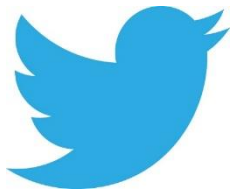


SARC has had a Yahoo Group for a number of years now. Its name is W5SC.

W5SC is being used to publicize SARC business meetings. It can be used for other things like promotion of VEC testing and classes. Members of the W5SC Yahoo Group can and have asked each other technical questions or sought assistance.

W5SC is a closed group. To become a member, go to groups.yahoo.com. (You may need to have a Yahoo account.) This will take you to a website where your groups, if any, are shown with a Search Group box at the top. Enter W5SC. This will take you to the search results page with W5SC on it. Select W5SC to go to the W5SC Yahoo Group. You will then need to select + *Join Group*. This generates a message. SARC members can expect approval to join the W5SC in probably less than 24 hours.

SARC Tweets



Reminder: there are two active Twitter accounts for the San Antonio Radio Club. They are [@SARadioClub](https://twitter.com/SARadioClub) and [@ARadioFiesta](https://twitter.com/ARadioFiesta).

The [@SARadioClub](https://twitter.com/SARadioClub) is being used to publicize SARC meetings. It can be used for other things like promotion of VEC testing and classes.

As Radio Fiesta 2017 work has commenced, the [@ARadioFiesta](https://twitter.com/ARadioFiesta) is being used again for the January 14, 2017 Radio Fiesta.

SARC members are encouraged to follow both Twitter accounts.

SARC Facebook



There is a San Antonio Radio Club – SARC ([@saradioclub](https://www.facebook.com/saradioclub)) Facebook Page.

The newsletter editor is making posts about SARC meetings and other activities. Any Officer, Committee Chairperson, or member who believes that they have information that should be posted to this page should contact the newsletter editor using the contact information for the newsletter editor on page 2 of this newsletter.

SARC members are encouraged to follow this Facebook Page.

SARC SLACK



There is a San Antonio Radio Club Slack team – w5sc.slack.com.

Slack teams are meant to foster communication between team members. Paul Guido, N5IUT, has established the w5sc.slack.com team for SARC. He has also established some channels. Think of the channels as topical areas.

To join send an email to Paul Guido, N5IUT, at radioteacher@gmail.com. In actuality, any team member already a part of the w5sc.slack.com can invite you, but Paul is known to be on it.

SARC has a website:

w5sc.org

Webmaster: Bill Craft KD2HIQ
Billc851@gmail.com
210-233-8863

Amateur Radio License Classes

A General Course is currently being planned. More information will be included when available.

As class plans firm up, they will be summarized here.

SARC Meeting Dates for next 12 Months

September 13, 2018
October 11, 2018
November 8, 2018
December (None)
January 10, 2019
February 14, 2019
March 14, 2019
April 11, 2019
May 9, 2019
June 13, 2019
July 11, 2019
August 8, 2019

Meetings are held at Grady's Barbeque, 327 E. Nakoma Dr., San Antonio, TX 78216 at 7:00 p. m.

Come early and eat with other members coming early.

License Testing Dates for 2018

September 22, 2018 at Hamster's Lunch & Learn, 1:30pm at American Red Cross, 3642 East Houston St., San Antonio 78219

October 27, 2018
December 22, 2018
January 12, 2019

Times and locations along with required document information can be found on SARC's website.

SARC does all its licensing testing as a part of ARRL Volunteer Examiner Coordinator (VEC) organization so all the Volunteer Examiners in SARC are duly authorized Volunteer Examiners of ARRL's VEC.

Field Day 2019

Setup: Friday, June 21, 2019
Operations: Saturday, June 22, 2019
& Sunday, June 23, 2019

Where SARC proves they are an eating group with a radio problem.

More information to follow, but hold these dates.

JOTA

Boy Scout Jamboree On The Air

This year's date is Oct 20, 2018. The plan is to again hold it at the Texas Transportation Museum.

For more information, contact:
Gary (Mike) Harrison, KB5KST

Radio Fiesta 2019

January 12, 2018
Schertz Civic Center
See newsletter article for more information

Emergency Communications

If you are interested in emergency communications, contact:
JC Smith N5RXS